

CyberNet Network

T E C H N O L O G Y

承認書

APPROVED SHEET

1. 客 戶: CUSTOMER	<u>威達電股份有限公司</u> ICP Electronics Inc.
2. 品 名: DESCRIPTION	<u>5 DBI DIOPLE ANTENNA</u>
3. 機種名稱: MODLE NAME	_____
4. 客戶料號: CUSTOMER P/N	_____
5. 供應商料號: SUPPLIER P/N	<u>AC0104158R00</u>
6. 日 期: Date	<u>95 年 08 月 22 日</u>
CUSTOMER	CYBERNET

*敬請於“CUTOMER”欄位簽核後，將封面回傳智歲公司，以利後續作業。謝謝!



智歲科技股份有限公司

台北地址: 台北縣板橋市溪城路 91 號 4 樓

電話: (02)2685-1811 傳真: (02)2685-1821

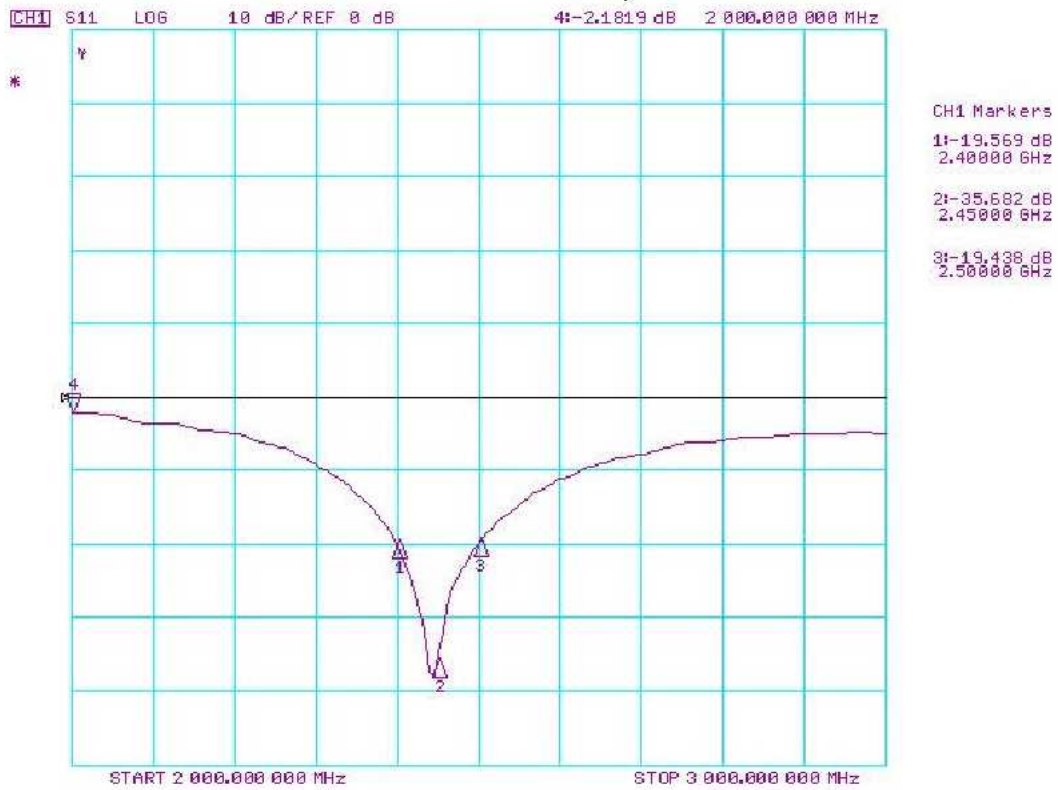
1. Feature and Application

- . dipole antenna design
- . small size / high gain / omni-directional radiation pattern
- . IEEE 802.11 b / g WLAN AP (Access Point) application
- . Bluetooth / HomeRF / ISM Band and other 2.4 GHz wireless communication application

2. Specification

1. Frequency Range	2400 ~ 2500 MHz
2. V.S.W.R.	< 2.0
3. Antenna Gain	5.0 dBi \pm 0.5dBi
4. Antenna Radiation Pattern	Omni-directional
5. Impedance	50 ohm
6. Color of Outer Cover	Black
7. Material of Outer Cover	TPE
8. Material of Hinge	PC
9. Operation Temperature	-40°C ~ + 90 ℃
10. Storage Temperature	-30°C ~ + 75 ℃

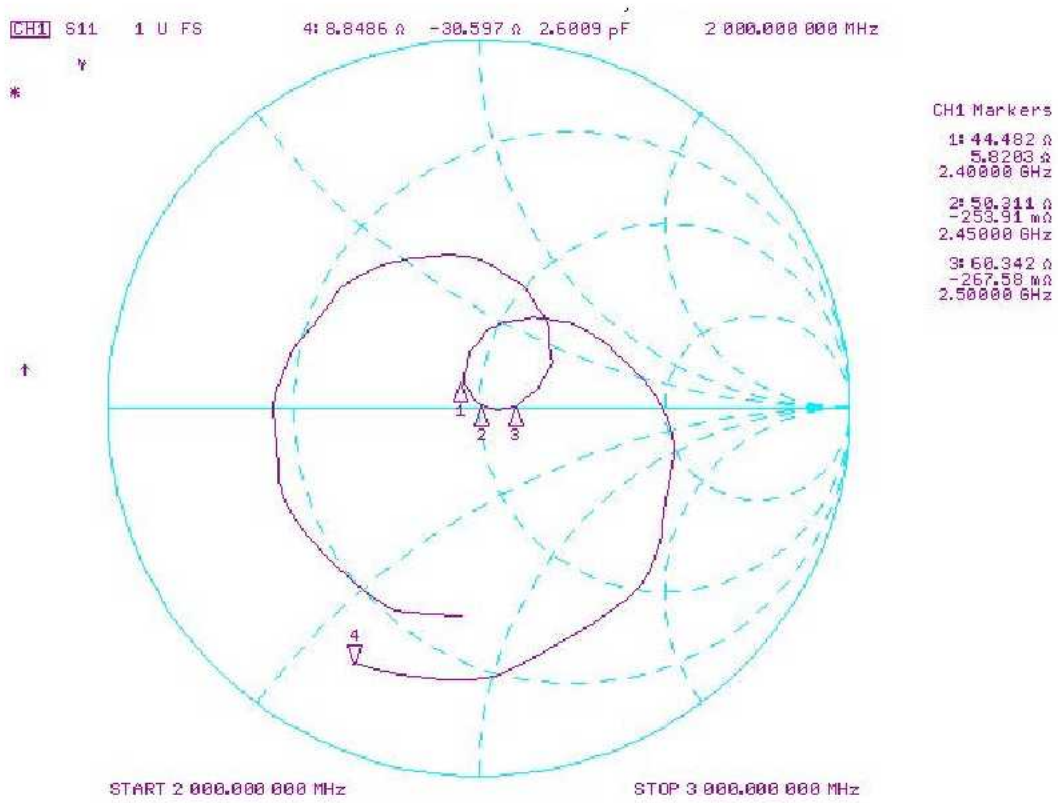
3. S11 Return Loss Testing Data



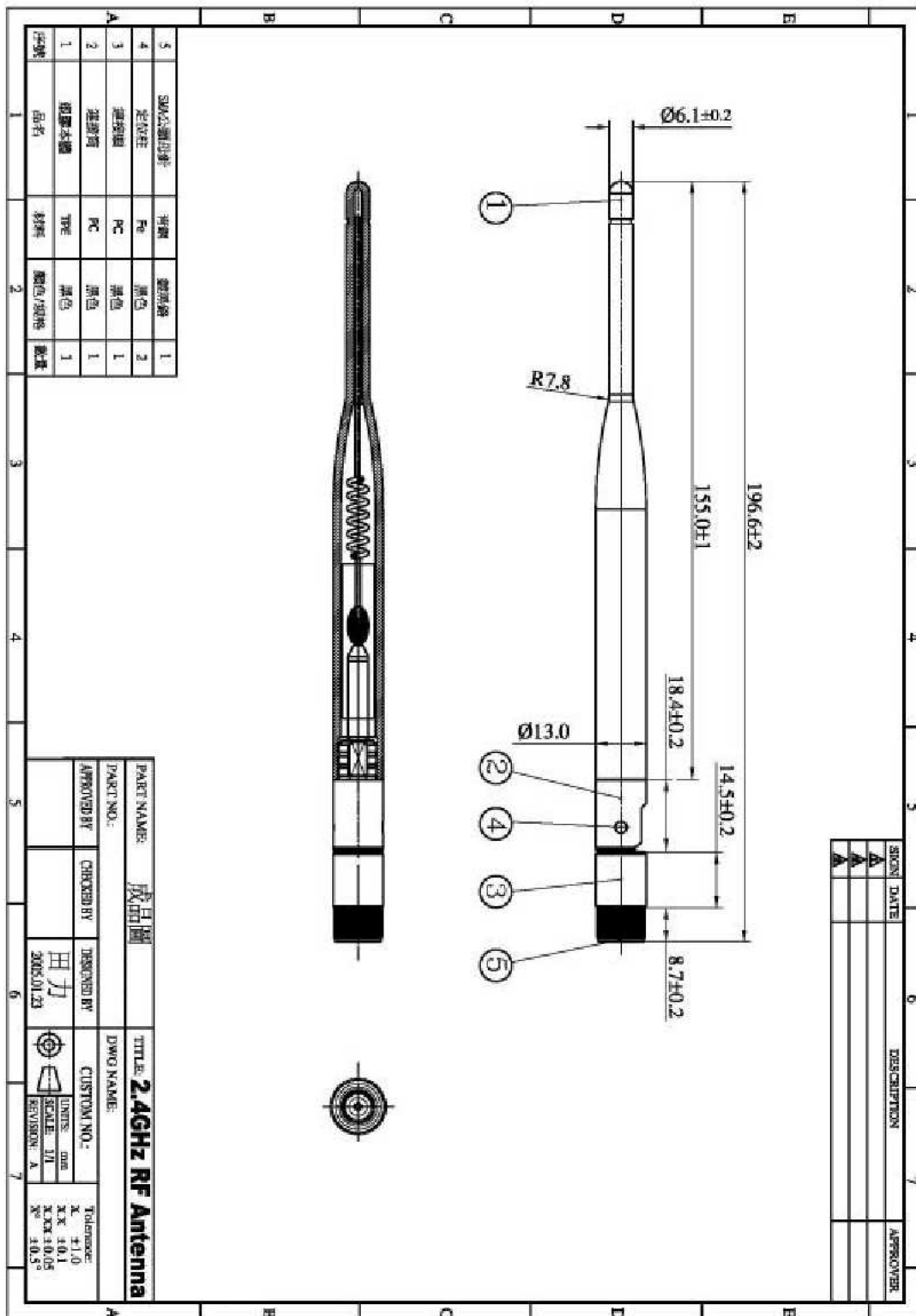
4. V.S.W.R Testing Data



4. Smith Chart and Impedance Testing Data



5. Mechanical Dimension Drawing



6. Plastic Parts Material Specification

物性項目 Property	單位 Unit	ASTM 試驗法 Test Method	TPE
比重 Specific Gravity	---	D792	0.88
模具收縮率 Shrinkage	%	D955	0.8-2.5
斷裂拉伸強度 Tensile Strength	Kg/ cm ²	D638	3.1
扭曲強度 Flexural Strength	Kg/ cm ²	D790	---
衝擊強度缺口 23°C Impact Strength	Kg om/om	D256	---
硬度 Hardness	A Shore	---	13
熱變形溫度 0.45 MPa Heat Deflection Temp.	°C	D648	80
熔融指數 Melt Flow Index	G/ min ²	D1238	10
燃燒性 Flammability	---	UL94	HB
Testing Data from			

TEIJIN POLYCARBONATE SINGAPORE PTE LTD

#01-01 111 SAKRA AVE. SINGAPORE 627881 SINGAPORE

Material Designation: L-1250#(f2), L-1250U#, L-1250V#, L-1250Z#

Product Description: Polycarbonate (PC)

Color	Min. thick. (mm)	Flame Class	HWI	HAI	RTI. Elec.	RTI. Imp.	RTI. Str.
ALL	0.40	V-2	4	3	80	80	80
	0.84	V-2	4	3	80	80	80
	1.5	HB	4	0	125	115	125
	3.0	HB	1	0	125	115	125
	6.0	HB	1	0	125	115	125
CXT:2, HVTR:2, D495:5							

Material designation may be suffixed with any one or two letters.

Subjected to one or more of the following tests; Ultraviolet Light, Water Exposure in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL Inc.

Report Date: 1999-07-29

7. Coaxial Cable RG-178 Data Sheet

RG-178 Coaxial Cable Specification		
1. Cable Type	MIL – C – 17 / RG-178	
2. Impedance	50 ± 3 ohm	
3. Inner Conductor	Material	silver-coated cooper
	Conductor Numbers	7
	Conductor Size	0.102 mm
	Outer Diameter	0.3 mm
4. Dielectric Layer	Material	FEP
	Color	Clear
	Average Thickness	0.28 mm
	Diameter	0.86 mm
5. Braid (Shielding)	Material	silver-coated cooper
	Construction	16-3-0.1 mm
	Coverage	95 %
6. Outer Cover	Material	FEP
	Color	Brown
	Average Thickness	0.25 mm
	Diameter	1.80 ± 0.05 mm
7. V.S.W.R Testing (DC ~ 6GHz)	< 1.3	
8. Attenuation (dB / 100 meter)	100 MHz	46
	900 MHz	155
	1800 MHz	295
	2400 MHz	340
	5200 MHz	505
	6000 MHz	550
9. Capacitance	97 ± 3 (pF / meter)	
10. Maximum Power	30 dBm	
11. Spark Test	2.0 KV	
12. Rating Temp. and Voltage	200°C / 30V	
13. Conductor Resistance	335 ohm / KM / 20°C max.	
14. Dielectric Resistance	3 G ohm / KM / 20°C min.	

8. Reliability Testing on Antenna Body

Test Item	Procedure	Requirement
1. Visual inspection and dimension check	Applicable methods using x5 magnification	follow Specification
2. Rapid changing of temperature	-40°C (30minutes) to 90°C (30minutes); 120 cycles	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$
3. Damp Heat	500 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$
4. Endurance	500 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$



Test Report

CYBERNET NETWORK TECHNOLOGY CO.
4F, NO. 283 JHONG SIAO E. RD., TAIPEI TAIWAN,
R.O.C.

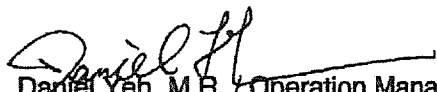
Report No. : CE/2005/40424B
Date : 2005/04/04
Page : 1 of 5

The following merchandise was (were) submitted and identified by the client as :

Type of Product : COAXIAL CONNECTOR
Style/Item No : BNC SERIES; TNC SERIES; N SERIES; TWINAX SERIES; UHF SERIES; MINI UHF SERIES; F SERIES; PAL SERIES; RCA SERIES; FME SERIES; SMA SERIES; SMB SERIES; MCX SERIES; MMCX SERIES; SSMB SERIES; SMC SERIES; 7/16" SERIES; MINI
Sample Received : 2005/04/04
Testing Date : 2005/04/04 TO 2005/04/04

Test Result : - Please see the next page -

This report is combined with 4 copies of report which provides by client


 Daniel Yeh, M.R. / Operation Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.

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TW 3223470



Test Report

CYBERNET NETWORK TECHNOLOGY CO.
 4F, NO. 283 JHONG SIAO E. RD., TAIPEI TAIWAN,
 R.O.C.

Report No. : CE/2005/40424B
 Date : 2005/04/04
 Page : 2 of 5

Test Result

PART NAME NO.1 : WHITE PALSTIC(CE/2004/62767)
 PART NAME NO.2 : GREEN LIQUID(GZSCR040413289/LP)
 PART NAME NO.3 : TAN TRANSPARENT LIQUID(GZSCR04013274/LP)
 PART NAME NO.4 : BRASSY COLOR METAL BAR(SZTYR050102512/LP)

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
AZO		As per LMBG 8202-2					
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
BENZIDINE (CAS NO.92-87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
4,4-DIAMINODIPHENYLMETHANE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---

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TW 3223471



Test Report

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 R.O.C.

Report No. : CE/2005/40424B
 Date : 2005/04/04
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Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA NE (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
P-CRESIDINE(2-METHOXY- 5-METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
O-TOLUIDINE (CAS NO.95- 53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
2,4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
O-ANISIDINE (CAS NO.90- 04-0)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---
P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	---	---

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
Mirex(CAS NO:002385-85-5)	ppm	Analysis was performed by GC/MS.	4	N.D.	---	---	---

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TW 3223472



Test Report

CYBERNET NETWORK TECHNOLOGY CO.
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 R.O.C.

Report No. : CE/2005/40424B
 Date : 2005/04/04
 Page : 4 of 5

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to USEPA 8082A. Analysis was performed by GC/ECD/MS.	0.5	N.D.	---	---	---

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	N.D.	N.D.	---
Cadmium (Cd)	ppm	Analysis was performed by AAS and ICP-AES	2	---	---	---	22.0
Mercury (Hg)	ppm	Analysis was performed by AAS and ICP-AES	2	---	---	---	N.D.
Lead (Pb)	ppm	Analysis was performed by AAS and ICP-AES	2	---	---	---	24600.0

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	---	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	---
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	---	N.D.	N.D.	---

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TW 3223473



Test Report

CYBERNET NETWORK TECHNOLOGY CO.
4F, NO. 283 JHONG SIAO E. RD., TAIPEI TAIWAN,
R.O.C.

Report No. : CE/2005/40424B
Date : 2005/04/04
Page : 5 of 5

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2	No.3	No.4
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	---	---	---
Dibromobiphenyl	%		0.0005	N.D.	---	---	---
Tribromobiphenyl	%		0.0005	N.D.	---	---	---
Tetrabromobiphenyl	%		0.0005	N.D.	---	---	---
Pentabromobiphenyl	%		0.0005	N.D.	---	---	---
Hexabromobiphenyl	%		0.0005	N.D.	---	---	---
Heptabromobiphenyl	%		0.0005	N.D.	---	---	---
Octabromobiphenyl	%		0.0005	N.D.	---	---	---
Nonabromobiphenyl	%		0.0005	N.D.	---	---	---
Decabromobiphenyl	%		0.0005	N.D.	---	---	---
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	---	---	---
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	---	---	---
Dibromobiphenyl ether	%		0.0005	N.D.	---	---	---
Tribromobiphenyl ether	%		0.0005	N.D.	---	---	---
Tetrabromobiphenyl ether	%		0.0005	N.D.	---	---	---
Pentabromobiphenyl ether	%		0.0005	N.D.	---	---	---
Hexabromobiphenyl ether	%		0.0005	N.D.	---	---	---
Heptabromobiphenyl ether	%		0.0005	N.D.	---	---	---
Octabromobiphenyl ether	%		0.0005	N.D.	---	---	---
Nonabromobiphenyl ether	%		0.0005	N.D.	---	---	---
Decabromobiphenyl ether	%		0.0005	N.D.	---	---	---
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.	---	---	---
Total of Mono to Nona-brominated biphenyl ether. (Note 4)	%	-	N.D.	---	---	---	

- NOTE: (1) N.D. = Not detected (<MDL)
 (2) ppm = mg/kg
 (3) MDL = Method Detection Limit
 (4) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
 (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.
 (6) " - " = Not Regulation
 (7) " --- " = Not Applicable
 (8) ** = Qualitative analysis (No Unit)
 (9) Negative = Undetectable / Positive = Detectable
 (10) The MDL is 5ppm for the single compound of CP

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TW 3223474



Test Report

CYBERNET NETWORK TECHNOLOGY CO.
4F, NO. 283 JHONG SIAO E. RD., TAIPEI TAIWAN,
R.O.C.

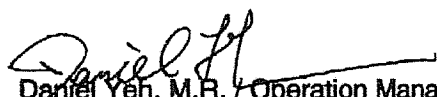
Report No. : CE/2004/C1640C
Date : 2004/12/16
Page : 1 of 8

The following merchandise was (were) submitted and identified by the client as :

Type of Product : ANTENNA
Style/Item No. : EM SERIES; IM SERIES; NB SERIES; AN SERIES
Sample Received : 2004/01/05 & 2004/04/23 & 2004/06/11 & 2004/06/24 &
 2004/12/09 & 2005/01/26 & 2005/02/17
Testing Date : 2004/01/05 TO 2004/01/06 & 2004/04/23 TO 2004/04/28 &
 2004/06/11 TO 2004/06/21 & 2004/06/24 TO 2004/07/01 &
 2004/12/09 TO 2004/12/16 & 2005/01/26 TO 2005/01/28 &
 2005/02/17 TO 2005/03/03

Test Result : - Please see the next page -

This report is combined with reports of SZTYR050102512/LP & CE/2004/62767 & GZSCR040100230/LP & CE/2004/61520 & GZSCR040413274/LP & GZSCR050207531/LP


 Daniel Yeh, M.R. / Operation Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.

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TW 3223462



Test Report

CYBERNET NETWORK TECHNOLOGY CO.
 4F, NO. 283 JHONG SIAO E. RD., TAIPEI TAIWAN,
 R.O.C.

Report No. : CE/2004/C1640C
 Date : 2004/12/16
 Page : 2 of 8

Test Result

PART NAME NO.1 : BRASSY COLOR METAL BAR(SZTYR050102512/LP)
 PART NAME NO.2 : BLACK PLASTIC SHEET(GZSCR040100230/LP)
 PART NAME NO.3 : TAN TRANSPARENT LIQUID(GZSCR040413274/LP)
 PART NAME NO.4 : BLACK PLASTIC JACKET(KHCX-32AWG-SB-TA)(CE/2004/61520)
 PART NAME NO.5 : TRANSPARENT FEP JACKET(CE/2004/C1640)
 PART NAME NO.6 : WHITE PALSTIC(CE/2004/62767)
 PART NAME NO.7 : SILVER COLORED METAL WIRE(GZSCR050207531/LP NO. 1)
 PART NAME NO.8 : TRANSPARENT LT. BROWN PLASTIC(GZSCR050207531/LP NO. 2)

Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	---	---	---	N.D.	N.D.
Dibromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Tribromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Tetrabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Pentabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Hexabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Heptabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Octabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Nonabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Decabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	---	---	---	N.D.	N.D.
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	---	---	---	N.D.	N.D.
Dibromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Tribromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Tetrabromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Pentabromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Hexabromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Heptabromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Octabromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Nonabromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Decabromobiphenyl ether	%		0.0005	---	---	---	N.D.	N.D.
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of	%		-	---	---	---	N.D.	N.D.
Total of Mono to Nona-brominated biphenyl ether. (Note 4)	%	-	---	---	---	N.D.	N.D.	

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	---	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	22.0	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	---	N.D.	N.D.	N.D.
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	24600.0	6.0	N.D.	N.D.	N.D.

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
Formaldehyde(CAS No:000050-00-0)	ppm	With reference to DIN 53315 & USEPA 8315A method. Analysis was performed by HPLC/DAD/MS	0.2	---	---	N.D.

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
PVC (CAS No:9002-86-2)	**	Analysis was performed by FTIR/ATR and Pyro-GC/MS.	-	---	---	N.D.

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
Chlorinated Paraffin (C10~C13) (CAS NO:010871-26-2)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by GC/MS or GC/ECD.	0.01	---	---	N.D.

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Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	---	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	---
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	---	N.D.	---
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.	N.D.	---
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	15	---	---	N.D.
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	50	---	---	N.D.
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	15	---	---	N.D.

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
AZO		As per LMBG 8202-2				
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
BENZIDINE (CAS NO.92-87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.

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Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
2-AMINO-4-NITROTOLUENE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
4,4-DIAMINODIPHENYLMETHANE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
3,3-DIMETHYL-4,4-DIAMINODIPHENYLMETHANE (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
P-CRESIDINE(2-METHOXY-5-METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
4,4-METHYLENE-BIS-(2-CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
O-TOLUIDINE (CAS NO.95-53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.

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Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
2,4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
O-ANISIDINE (CAS NO.90- 04-0)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.
P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	N.D.	---	N.D.

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
Mirex(CAS NO:002385-85- 5)	ppm	Analysis was performed by GC/MS.	4	N.D.	---	---

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to USEPA 8082A. Analysis was performed by GC/ECD/MS.	0.5	N.D.	---	---

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
Organic-tin compounds						
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	---	---	N.D.
Tributyl Tin(TBT)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	---	---	N.D.

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Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
Asbestos						
Anthrophyllite(CAS NO.017068-78-9)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	---	---	Negative
Crocodolite(CAS NO.012001-28-4)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	---	---	Negative
Amosite(CAS NO.012172-73-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	---	---	Negative
Tremolite(CAS NO.014567-73-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	---	---	Negative
Chrysotile(CAS NO.012001-29-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	---	---	Negative
Actinolite(CAS NO.013768-00-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	---	---	Negative

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to USEPA 8082A. Analysis was performed by GC/ECD/MS.	0.5	---	---	N.D.

Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
Polychlorinated Naphthalene	ppm	With reference to USEPA 8081B. Analysis was performed by GC/MS.	5	---	---	N.D.

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Test Item (s):	Unit	Method	MDL	Result		
				No.6	No.7	No.8
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	---	N.D.
Dibromobiphenyl	%		0.0005	N.D.	---	N.D.
Tribromobiphenyl	%		0.0005	N.D.	---	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.	---	N.D.
Pentabromobiphenyl	%		0.0005	N.D.	---	N.D.
Hexabromobiphenyl	%		0.0005	N.D.	---	N.D.
Heptabromobiphenyl	%		0.0005	N.D.	---	N.D.
Octabromobiphenyl	%		0.0005	N.D.	---	N.D.
Nonabromobiphenyl	%		0.0005	N.D.	---	N.D.
Decabromobiphenyl	%		0.0005	N.D.	---	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	---	N.D.
Monobromobiphenyl ether	%		With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	---
Dibromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Tribromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Tetrabromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Pentabromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Hexabromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Heptabromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Octabromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Nonabromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Decabromobiphenyl ether	%	0.0005		N.D.	---	N.D.
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%	-		N.D.	---	N.D.
Total of Mono to Nona-brominated biphenyl ether. (Note 4)	%	-		N.D.	---	N.D.

- NOTE: (1) N.D. = Not detected (<MDL)
 (2) ppm = mg/kg
 (3) MDL = Method Detection Limit
 (4) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
 (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.
 (6) " - " = Not Regulation
 (7) " --- " = Not Applicable
 (8) ** = Qualitative analysis (No Unit)
 (9) Negative = Undetectable / Positive = Detectable
 (10) The MDL is 5ppm for the single compound of CP

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